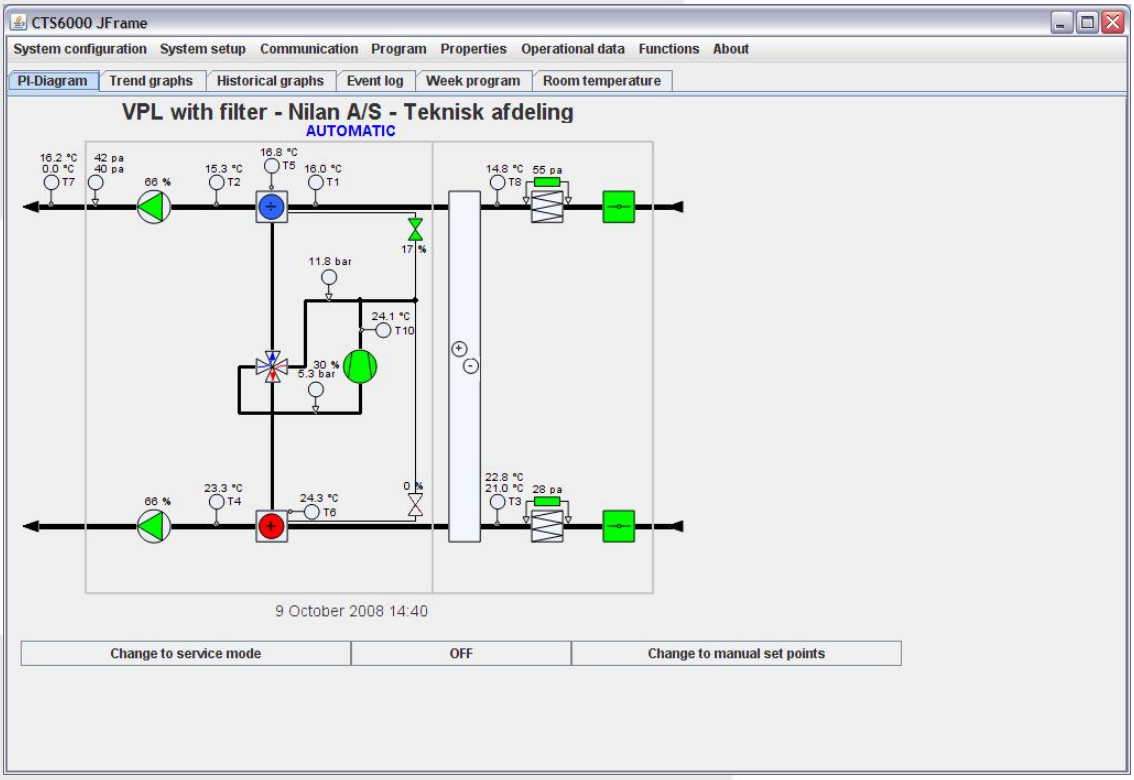
User's Guide

CTS6000 WebControl



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Introduction

Please check that the following documents have been supplied with the unit:
Installation instructions
User's Guide for CTS6000 WebControl (this document)
Wiring diagram
Warranty certificate

The purpose of this guide is to provide a clear, detailed description of the possibilities offered by CTS6000 WebControl.
The guide may contain functions and facilities which are not available on your system.
For technical information on the possibilities provided by CTS6000 WebControl, please refer to "Function Description for CTS6000 WebControl".

Introduction to CTS6000

CTS6000 is a control unit for commercial ventilation systems supplied by Nilan A/S. CTS6000 was developed in Denmark and is also produced there. CTS6000 is designed to meet future requirements on improving the possibility of optimising ventilation systems and reducing running costs.
As the name suggests, CTS6000 WebControl is an Internet-based monitoring program. The program is pre-installed in the unit and there is thus no need for software other than an Internet browser capable of running Java applications. If the unit is connected to the Internet, it is possible to log into the system from a PC anywhere in the world.

Reading instructions

This instruction manual contains five main sections.
"Quick startup" describes the log-in procedure and how to start the unit for the first time.
"Daily operation" describes the functions used in day-to-day operation.
"CTS6000 WebControl settings" describes the functions associated with the monitoring program.
"Unit settings" describes the functions associated with ventilation unit setup.
"Network settings" describes the functions associated with network communication.
Appendices can be found at the end of the manual.
The main sections are numbered, e.g. "0. Unit settings", while associated subsections are numbered with the main section number first, e.g. "0 Trend graphs".
Figures are numbered consecutively throughout the manual.
Function location is given as shown in the following example: "System settings -> Filter monitor", where "System settings" is an option in the main options bar along the top of the window and "Filter monitor" is an option in the "System settings" menu, see **Fejl! Henvisningskilde ikke fundet.**.

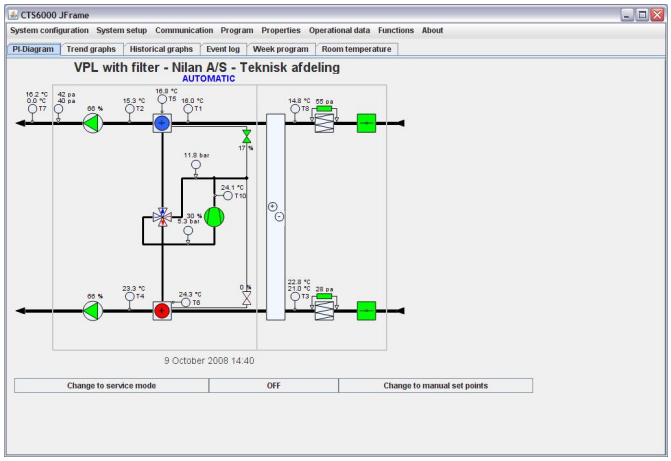

Figure 1 Example of menu options

Quick startup

CTS6000 WebControl is an Internet-based monitoring program designed as a Java application. It must therefore be possible to run Java applications on the computer used to log into the system.

If this is not possible, Java can be downloaded via: http://www.java.com/en/download/index.jsp
To allow direct communication with the unit, the computer's IP address must be 10.1.10.xxx. (where xxx is a number between 0 and 255 which differs from the last part of the unit's IP address). See details on changing your PC's network settings.
The computer must be connected to the control unit via a crossover patch cable (supplied with CTS6000).
The control unit is equipped with a port for the cable on the PCB located in the ventilation unit's electrical panel. The small PCB raised above the larger one contains an RJ45 port, see **Fejl! Henvisningskilde ikke fundet.** bottom left.

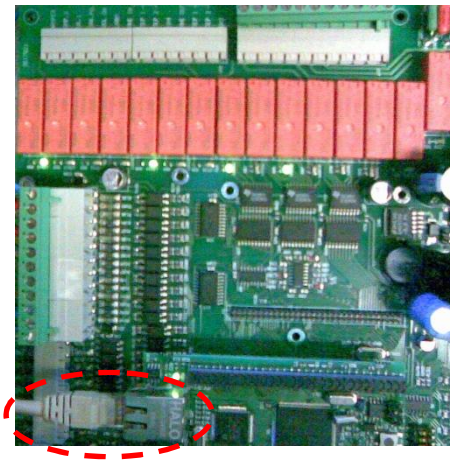

Figure 2 CTS6000 PCB with network port

Open a browser, e.g. Internet Explorer, and enter the control unit's IP address in the address field. Unless otherwise stated, the address is "10.1.10.240". The computer will begin to retrieve data from the control unit. A dialogue box with three fields will then open, see **Fejl! Henvisningskilde ikke fundet.**.

Figure 3 Log-in window

It is possible to log in on various levels. Enter the control unit's IP address in the uppermost left field. Enter the username and password and click OK to log in. A logging-in dialogue box will then appear. The "Port" field is used if several units have the same IP address.

Daily operation

Weekly program and yearly program

The unit can run automatically by means of weekly and yearly programs. "Weekly program" is located under Program → Weekly program.
The periods in which the unit is to operate can be selected in the dialogue box. There are various operating modes, depending on unit specifications, see **Fejl! Henvisningskilde ikke fundet.**.
Click a program event to change the data it contains. To create a new event, select a day and then click "New program" and remove the tick beside "Stop unit". Note that times must be ordered chronologically. After changing an event, click "Update". Once all weekly program settings have been made, click "Save".

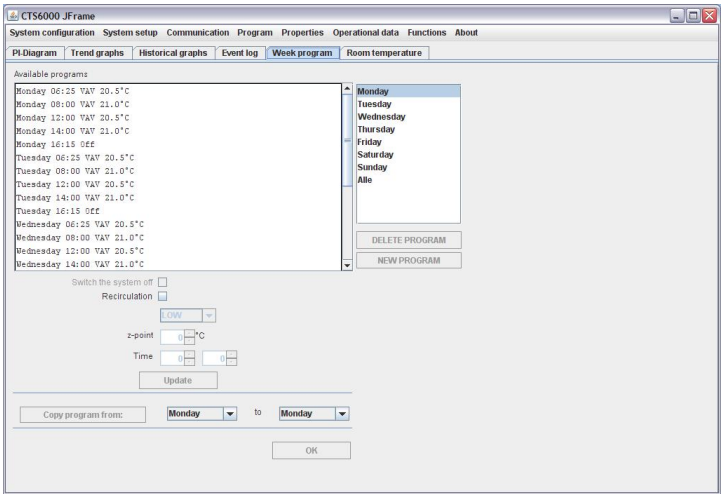

Figure 4 Weekly program

"Yearly program" is located under Program → Yearly program. Program events which override the usual weekly program can be entered here. Public holidays at Christmas and New Year, for example, see **Fejl! Henvisningskilde ikke fundet.**.

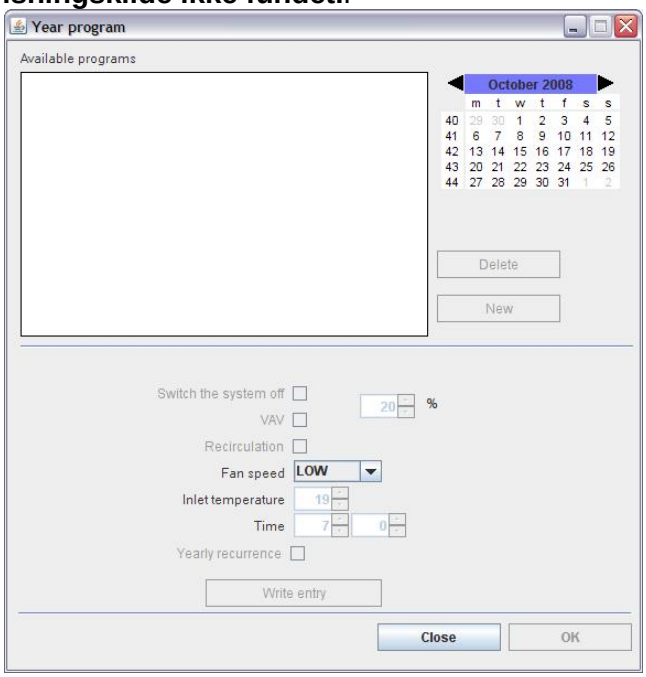

Figure 5 Yearly program

Room temperature

The setpoint can be manually offset in relation to the weekly program under "Room temperature". To offset the setpoint, click the arrow left or arrow right button beside "Required temperature". Then click "Set temperature". After a moment, "Required temperature" will change.

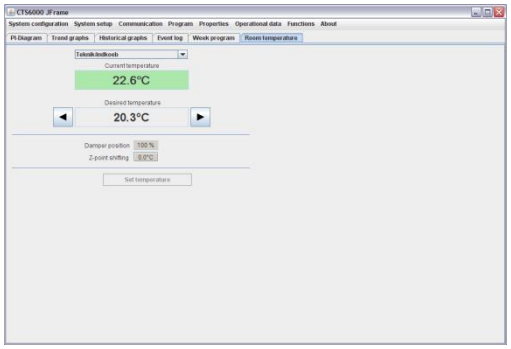

Figure 6 Room temperature

Alarm management

The number of alarms in the event log is indicated below the PI diagram, if greater than 0. The "Event log" menu option allows alarms to be displayed, reset and deleted, see **Fejl! Henvisningskilde ikke fundet.**.

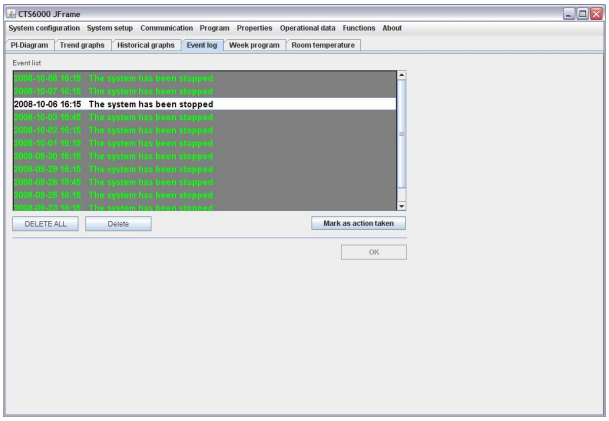
CTS6000 JFrame
System configuration System setup Communication Program Properties Operational data Functions About
PI-Diagram Trend graphs Historical graphs Event log Week program Room temperature
Event list
2008-10-06 16:15 The system has been stopped
DELETE ALL
Delete
Mark as action taken
OK

Figure 7 Event log

"Event log" is located under Operating data → Event log.
Alarms which have not yet been reset are indicated with an "(!)" after them. To reset an alarm, click on it using the mouse and then click the "Mark as reset" button. If several alarms have been activated, repeat the procedure for each of them.
Once all the alarms have been reset, click "Save". If "Cancel" is clicked, but not "Save", the alarms will remain on the list. See alarm overview.

Historical graphs

"Historical graphs" is located under Operating data → Historical graphs.
Diagrams showing how system components have reacted in the past are available under "Historical graphs", see **Fejl! Henvisningskilde ikke fundet.**. The length of the period displayed can be changed by adjusting log interval under Properties → Date and time.
A log interval of between 5 and 600 seconds can be selected. The history log is cleared whenever log interval is changed.
The sensors or components for which curves are required can be selected on the right-hand side of the window. See list of sensors and components.

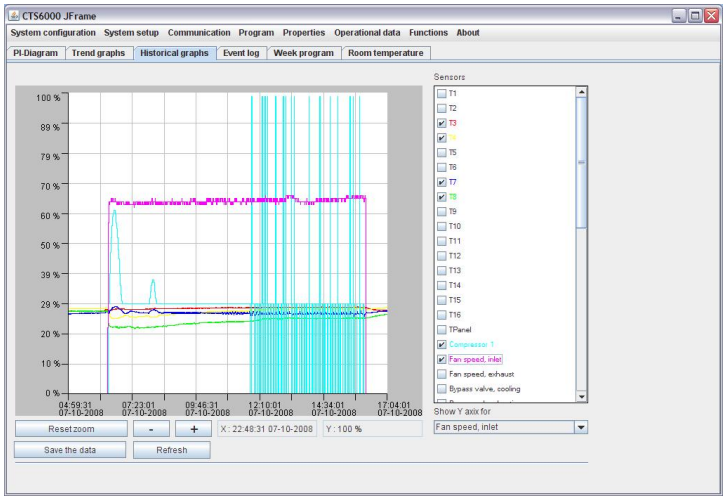

Figure 8 Historical graph

Using the window:
To zoom in, use the left-hand mouse button to drag a rectangle downwards from left to right, or use the "+" button.
To zoom out, use the left-hand mouse button to drag a rectangle upwards from right to left, or use the "-" button.
Reset zoom using the "Reset zoom" button.
The value of a sensor or component can be read off the graph by positioning the mouse at the required point on the curve. The value will then be displayed below the graph after "Y: ". If several different sensors and components have been selected, the Y-axis that suits the required curve can be selected in the drop-down box bottom right.

The curves are updated with the "Update" button.
To save the log file, click the "Save data to file" button in the bottom left-hand corner and then select the file location.

Trend graphs

"Trend graphs" are located under Operating data → Trend graphs.
Trend graphs are used to monitor current status and data for the previous 15 minutes. The period to be shown in the graph is selected using the two fields beside "Graph period (min)", see **Fejl! Henvisningskilde ikke fundet.**.
The sensors or components for which curves are required can be selected on the right-hand side of the window. See list of sensors and components.

Using the window:
Click "Start" to create the graph.
To zoom in, use the left-hand mouse button to drag a rectangle downwards from left to right, or use the "+" button.
Move the image by dragging it with the right-hand mouse button.

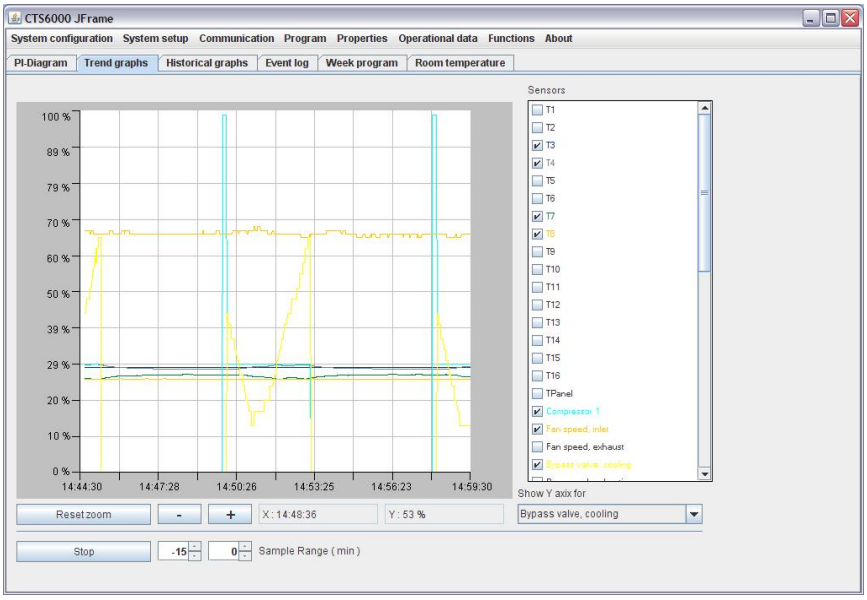

Figure 9 Trend graph

To zoom out, use the left-hand mouse button to drag a rectangle upwards from right to left, or use the "-" button. Reset zoom using the "Reset zoom" button.
The value of a sensor or component can be read off the graph by positioning the mouse at the required point on the curve. The value will then be displayed below the graph after "Y: ". If several different sensors and components have been selected, the Y-axis that suits the required curve can be selected in the drop-down box bottom right.

About the program

About the program → About the program contains information on the software versions used by the control unit. Program and Java versions are indicated. Your current log-in level is also indicated.

Restarting the system

The entire ventilation system can be restarted under Functions → Restart system. If you restart the system, you will be logged out and the unit will restart.

Logging out

You can log out of the program under Functions → Log out of system. Before logging out, check that the controls have been set to "Automatic operation".

CTS6000 WebControl settings

System information

"System information" is located under System configuration → System information. The name of the ventilation unit can be entered here.

Password

You can change your log-in password under Functions → Password. See Log-in information.

Rights

The functions which are to be accessible to users at lower log-in levels can be selected under Functions → Rights, see **Fejl! Henvisningskilde ikke fundet.**.
To add or remove functions, highlight the function concerned and then use the arrow buttons in the centre of the window to move the function from the one list to the other.
Remember to click "Save" before exiting.

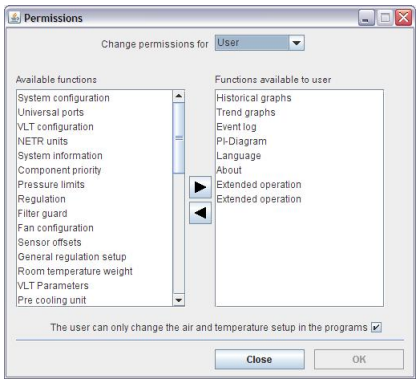

Figure 10 Rights

Tabs

The tabs which are to be accessible to users at current and lower log-in levels can be selected under Functions → Tabs, se **Fejl! Henvisningskilde ikke fundet.**.
To add or remove tabs, highlight the tab concerned and then use the arrow buttons in the centre of the window to move the tab from the one list to the other. Tab order can be changed using the arrow buttons on the right-hand side of the window.
Remember to click "Save" before exiting.

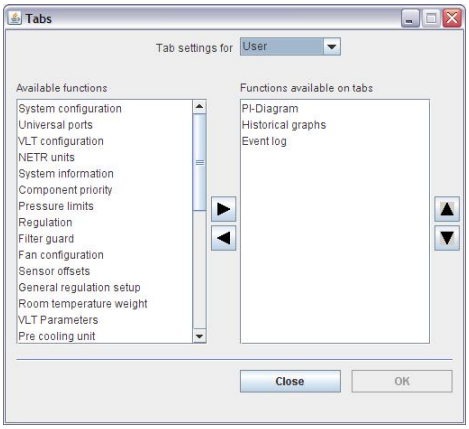

Figure 11 Tabs

Backing up system settings

After making changes to the Weekly program or other settings, it is advisable to take a backup of the new settings. This can be done by selecting Functions → Backup, which opens a dialogue box with two buttons. To save the current settings, click "Save system configuration". A new dialogue box will then appear, allowing you to specify a file name and location.
To retrieve previously saved settings, click "Retrieve system configuration" and select the required file. The system settings selected will then be restored. After retrieving stored settings, close the browser window completely before logging in again.

Restoring factory settings

The factory settings with which the unit was originally supplied can be restored under System configuration → Restore factory settings, see **Fejl! Henvisningskilde ikke fundet.**.
To restore the factory settings, tick the box beside "Approve restoration of factory settings" and then click the "Restore" button in the lower right-hand corner. The program will log out. Restart the browser and log in again using the original username and password.

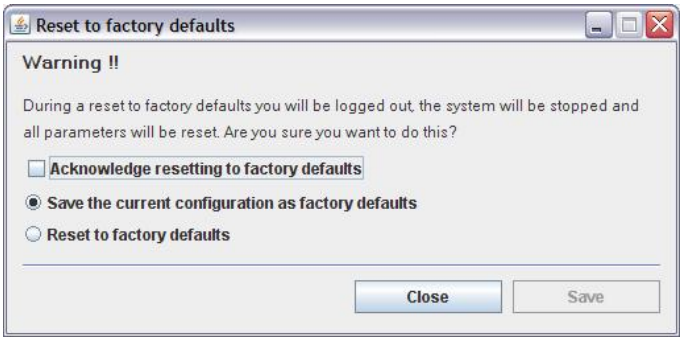
Reset to factory defaults
Warning !!
During a reset to factory defaults you will be logged out, the system will be stopped and all parameters will be reset. Are you sure you want to do this?
Acknowledge resetting to factory defaults
Save the current configuration as factory defaults
Reset to factory defaults
Close
Save

Figure 12 Restoring factory settings

Updating software

System software can be updated under Functions → Update system software, see **Fejl! Henvisningskilde ikke fundet.**.

When updating software, it is very important that power is not interrupted during the process itself or immediately afterwards.
System settings are not reset when software is updated. It is, however, recommended that system settings be saved before updating software.
After updating software, it is not possible to log in again for approx. 5 minutes.

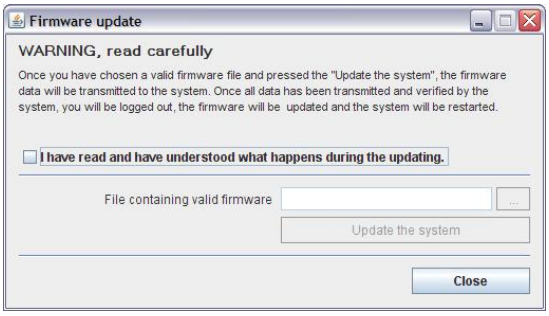
Firmware update
WARNING, read carefully
Once you have chosen a valid firmware file and pressed the "Update the system", the firmware data will be transmitted to the system. Once all data has been transmitted and verified by the system, you will be logged out, the firmware will be updated and the system will be restarted.
I have read and have understood what happens during the updating.
File containing valid firmware
Update the system
Close

Figure 13 Updating system software

Unit settings

The functions described in this section concern unit components. Changes should therefore be made with care. If changes are to be made in any of the functions described, the unit must first be stopped. The operator should also have direct physical access to the unit.
This manual simply introduces the functions. For more detailed information, see "Function Description for CTS6000 WebControl".

PI diagram

The PI diagram provides a visual overview of ventilation unit components and their current status, see **Fejl! Henvisningskilde ikke fundet.**. The "Start/Stop control" button is bottom centre. This button is used to start or stop the unit while it is running automatically in accordance with the weekly or yearly program.
When the unit is stopped, the button is called "Start control" while it is called "Stop control" when the unit is in operation.
A "Manual setpoints" button is located on the right-hand side of the window. If the button is clicked, the text changes to "Automatic operation" and all setpoints can be overridden manually.
A "Manual control" button is located on the left-hand side of the window. If the button is clicked, all components can be manually overridden. This function is only available at administrator level and should only be used in conjunction with commissioning and run-in.

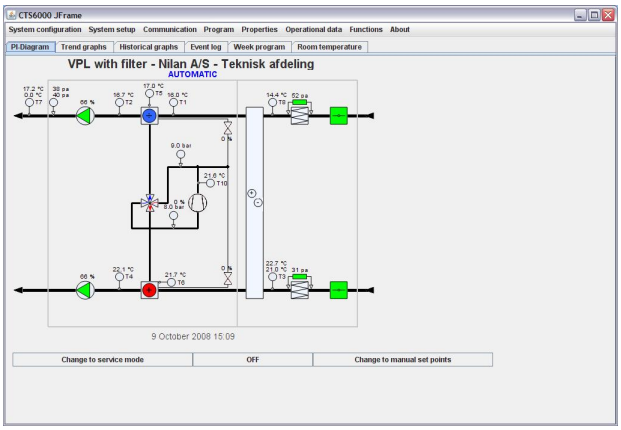

Figure 14 PI diagram

The operator should always have direct physical access to the unit when changes are made. Note that alarms are deactivated during "Manual control". To return to automatic operation, click the same button, which is now called "Automatic operation".

Unit configuration

"Unit configuration" is used to select basic ventilation unit components.
"Unit configuration" is located under System configuration → Unit configuration, see **Fejl! Henvisningskilde ikke fundet.**.

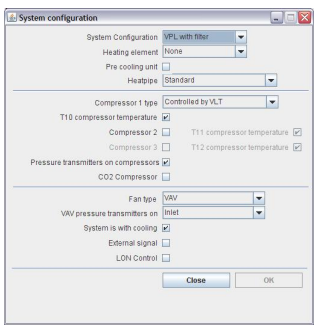

Figure 15 Unit configuration

General regulation parameters

Regulation parameters for the unit can be set under "General regulation parameters".
"General regulation parameters" is located under System settings → General regulation parameters.

Regulation

The way in which temperature control is to be regulated is set under "Regulation", see **Fejl! Henvisningskilde ikke fundet.**. Neutral zone, inlet temperature limits, etc. are set here.
"Regulation" is located under System settings → Regulation.

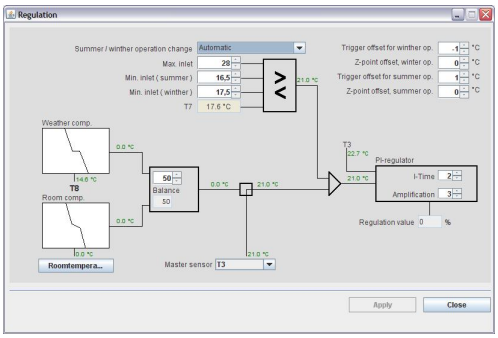

Figure 16 Regulation

Filter monitor

The filters located in the fresh air intake and exhaust ducts gradually become dirty.
This can be recorded in several ways. "Filter monitor" is located under System settings → Filter monitor.

Component priority

If the unit is equipped with an after-heating coil, it may be beneficial to utilise the coil before activating the heat pump in situations where heating is required. The order can be changed under "Component priority". "Component priority" is located under System configuration → Component priority.

Fan settings

Fan operation is set under "Fan settings", see **Fejl! Henvisningskilde ikke fundet.**.
"Fan settings" is located under System settings → Fan settings.

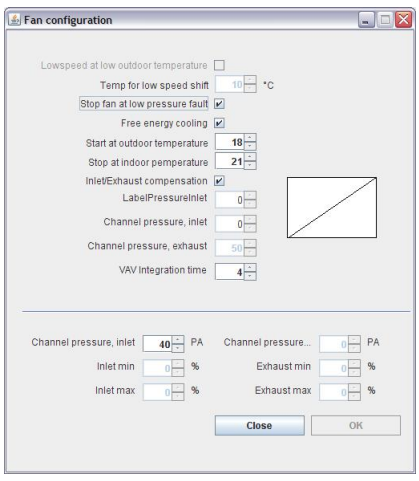

Figure 17 Fan settings

Pressure limits

Parameters relating to the prevention function for high and low pressure heat pump errors are set under System configuration → Pressure limits.

Sensor offset

Sensors connected to the system can be individually adjusted under "Sensor offset".
"Sensor offset" is located under System settings → Sensor offset.

VLT settings

The way in which CTS6000 is to control any frequency converters connected to the system is set under "VLT settings". Speed can be controlled either by an analogue connection with a 0-10V signal or via an RS485 bus connection (applies only to Danfoss VLT frequency converters).
"VLT settings" is located under System configuration → VLT settings.

VLT parameters

If the frequency converters connected to the system are controlled via an RS485 bus connection, it is possible to view and alter their parameters.
"VLT parameters" is located under System settings → VLT parameters.

NETR unit settings

The ventilation unit can communicate with room temperature controllers via Netavent. These are added under System configuration → NETR units.

Programming

If there are special requirements for ventilation unit operation, these can be set under "Programming", see **Fejl! Henvisningskilde ikke fundet.**. The unit can be programmed by creating a series of logical commands capable of activating free outputs on the PCB itself. Signals can thus be given via either digital or analogue outputs.
"Programming" is located under Functions → Programming.

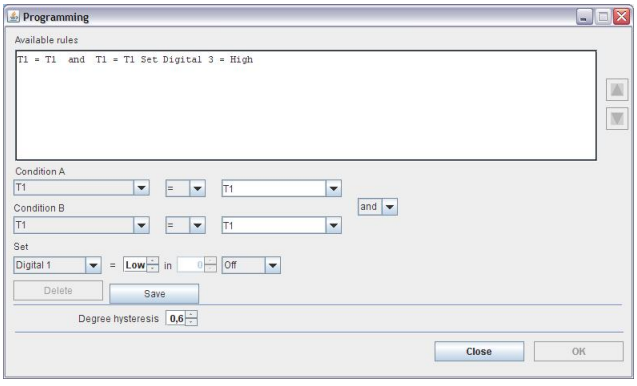

Figure 18 Programming

Universal ports

Not implemented as yet.

Pre-cooling coil

If the system contains a pre-cooling coil, its settings can be defined under System settings → Pre-cooling coil. It is possible to set the regulator and select a setpoint for T1. It is also possible to view cooling coil output.

Network settings

Network settings

The ventilation unit can be monitored from a PC connected directly to the unit via a crossover patch cable. The unit can also be connected to the building's internal network or can be provided with its own separate Internet connection.
In cases where the unit is to be connected to a PC directly, no additional settings to those described under "Quick startup " are required.
If the unit is to be connected to the building's internal network, the following information must be obtained from the building's IT administrator: the IP address, net mask and standard gateway to be used. This data should then be entered in the Network settings dialogue box, see **Fejl! Henvisningskilde ikke fundet.**. If the control unit is to be equipped with its own Internet connection, similar data must be obtained and entered.

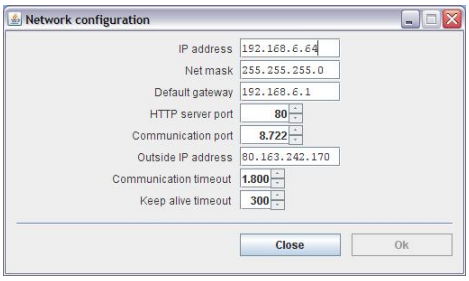

Figure 19 Network settings

"Network settings" is located under Communication → Network settings.
When changes are made under "Network settings", the program logs out and it is necessary to log in again with the new data.

RS232 configuration

Not implemented as yet.

RS485 configuration

RS485 configuration provides an overview of the intended use of the three RS485 ports.

Email alarm settings

The control unit can be set up to send emails when various levels of alarms and events occur.
The SMTP server's IP address must be entered in the "SMTP server" field. The sender email address can then be freely defined.
Up to five recipient addresses can be entered for alarms of varying level. Level 0 is all alarms, warnings and events. Level 1 is alarms and warnings. Level 2 is alarms only.

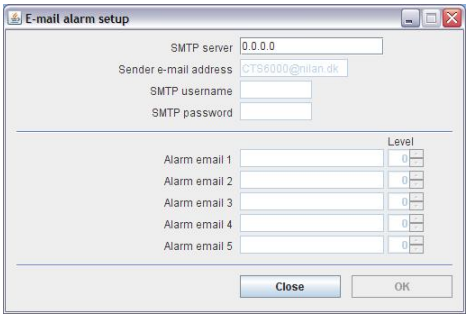

Figure 20 Email alarm settings

Appendices

Description of alarms

Alarm name	Description	Remedy
Door open	Door to fans is open. Ventilation unit stops in order to prevent personal injury.	Close door and reset alarm.
Fire alarm	The unit is equipped with two fire thermostats: one in the inlet duct, the other in the exhaust duct. If temperature becomes excessive, the thermostats are activated.	Reset fire thermostats in unit and reset alarm.
Smoke alarm	Smoke detectors can be fitted in the unit. One of these smoke detectors has sensed smoke.	Check smoke detector and reset alarm.
Thermal relay	Motor protector has cut out; Klixon in compressor motor or fan motor has cut out; or error has occurred in frequency converter.	Reset motor protector or remedy error in frequency converter and reset alarm.
High pressure alarm	A high pressure alarm can be activated if there is insufficient air flow through the unit. This may be caused by blocked filters, loose V-belts or dampers which have not opened.	Reset alarm. If the alarm repeatedly occurs for no apparent reason, call service.
Low pressure alarm 1	Low pressure alarm 1 can be activated if there is insufficient air flow through the unit. This may be caused by blocked filters, loose V-belts or dampers which have not opened.	The controls stop the compressor itself until the pressure switch is reset. Max. 5 times an hour, however.
Low pressure alarm 2	Low pressure alarm 2 is activated if low pressure alarm 1 has been activated 5 times within the last hour.	Reset alarm. If the alarm repeatedly occurs for no apparent reason, call service.
Condenser high pressure	Upper limit for cooling circuit pressure set under "Pressure limits" has been exceeded. The alarm can be activated by insufficient air flow through the unit. This may be caused by blocked filters, loose V-belts or dampers which have not opened.	Reset alarm. If the alarm repeatedly occurs for no apparent reason, call service.
Evaporator low pressure 1	Lower limit for cooling circuit pressure, which is set under "Pressure limits", has been exceeded. The alarm can be activated by insufficient air flow through the unit. This may be caused by blocked filters, loose V-belts or dampers which have not opened.	The controls stop the compressor until pressure is regained. Max. 5 times an hour, however.
Evaporator low pressure 2	Evaporator low pressure 2 is activated if Evaporator low pressure 1 has been activated 5 times within the last hour.	Reset alarm. If the alarm repeatedly occurs for no apparent reason, call service.
Condenser overheated	Condenser temperature setting under "Pressure limits" too high. The alarm can be activated by insufficient air flow through the unit. This may be caused by blocked filters, loose V-belts or dampers which have not opened.	Reset alarm. If the alarm repeatedly occurs for no apparent reason, call service.

Alarm name	Description	Remedy
Evaporator too cold	Evaporator temperature setting under "Pressure limits" too low. The alarm can be activated by insufficient air flow through the unit. This may be caused by blocked filters, loose V-belts or dampers which have not opened.	Reset alarm. If the alarm repeatedly occurs for no apparent reason, call service.
Timeout for prevention function	The prevention function for high or low pressure alarms has run for more than 20 minutes but pressure is still outside the limits. This may be caused by blocked filters, loose V-belts or dampers which have not opened.	Reset alarm. If the alarm repeatedly occurs for no apparent reason, call service.
Frost alarm	Temperature of hydronic after-heating coil too low.	The controls open the water valve and start the pump to keep the heating coil free of ice.
Fatal frost alarm	Temperature of hydronic after-heating coil remains too low despite prevention attempts.	The unit is stopped. Check the after-heating coil.
Flow alarm	Insufficient air flow across electric after-heating coil for coil to cut in. This may be caused by blocked filters, loose V-belts or dampers which have not opened.	Reset alarm. If the alarm repeatedly occurs for no apparent reason, call service.
Compressor starts	A compressor has started 59 times within one hour.	Set compressor minimum off time to at least 3 minutes and reset the alarm.
VLT compressor starts	A VLT compressor has started 11 times within one hour.	Set compressor minimum off time to at least 6 minutes and reset the alarm.
Pressure pipe temperature T10/11/12/13	Pressure pipe temperature on compressor 1/2/3/4 has exceeded 125°C.	The controls stop the compressor and do not allow it to restart before the temperature has dropped below 50°C. If the alarm repeatedly occurs, call service.
VLT x has not responded to the 5 latest requests	A communication error has occurred between the control unit and the VLTs.	The unit stops. Reset alarm. If the alarm repeatedly occurs, call service.
Netavent unit x has not responded to the last 5 requests	A communication error has occurred between the control unit and the VLTs.	Reset alarm. If the alarm repeatedly occurs, call service.
T3 is set as the controlling sensor	If a Netavent unit has been selected as the controlling sensor, but communication with the unit concerned cannot be established, the control unit switches instead to T3 (exhaust temperature).	Reset alarm.

Username and password for CTS6000

Level:	Username:	Password:
User	User	user*

* the password can be changed within the system.

Log-in data for Technician level is given in the test report or diagram.

Description of sensors and components

Sensor/component	Description
Temperature sensor	
T1	Inlet sensor after heat pipe
T2	Inlet sensor after heat pump
T3	Exhaust sensor
T4	Discharge sensor
T5	Upper evaporator/condenser sensor
T6	Lower evaporator/condenser sensor
T7	Inlet sensor after inlet fan and after-heating coil (if any)
T8	Fresh air sensor
T9	Sensor in hydronic after-heating coil
T10	Pressure pipe sensor compressor 1
T11	Pressure pipe sensor compressor 2
T12	Pressure pipe sensor compressor 3
T13	
T14	
T15	
T16	
Tpanel	Temperature sensor in control panel
Sensors	
Air flow in	Air flow sensor in inlet duct
Air flow out	Sensor for measuring air flow in exhaust duct
Humidity sensor	Air humidity sensor in ventilated area
Pressure transmitter inlet	Air pressure sensor in inlet duct
Pressure transmitter exhaust	Air pressure sensor in exhaust duct
Pressure transmitter intake filter	Sensor for measuring pressure drop across fresh air intake filter
Pressure transmitter exhaust filter	Sensor for measuring pressure drop across exhaust filter
Pressure transmitter high pressure	Sensor for measuring pressure-side pressure in cooling circuit of main module
Pressure transmitter low pressure	Sensor for measuring suction-side pressure in cooling circuit of main module
Pressure transmitter high pressure cooling module	Sensor for measuring pressure-side pressure in cooling circuit of cooling module
Pressure transmitter low pressure cooling module	Sensor for measuring suction-side pressure in cooling circuit of cooling module
Active components	
Compressors 1-3	Compressors in main unit
Compressors 4-6	Compressors in cooling module
Fan in	Inlet fan
Fan out	Exhaust fan
Bypass valve cooling	Hot gas bypass valve, cooling
Bypass valve heating	Hot gas bypass valve, heating
Modulating hot gas bypass valve	Modulating hot gas bypass valve, in both cooling and heating
Four-way valve	Valve for switching heat pump status between heating and cooling
Electric heating coil	7-step electric after-heating coil
Water valve	Modulating water valve in hydronic after-heating coil
Water pump	Circulation pump for hydronic after-heating coil
Damper in	Shut-off damper in inlet duct
Damper out	Shut-off damper in exhaust duct
Damper recirculation	Damper for exhaust air recirculation
Damper supplementary	Supplementary damper in exhaust duct
Passive components	
Heat pipe	Passive heat recovery

Network settings on PC with Windows XP

This section describes how the PC's network settings should be adapted to those of the ventilation unit. If the unit's IP address is 10.1.10.xxx (where xxx is a number between 0 and 255, e.g. 240), the PC must have the following IP address: 10.1.10.xxx (e.g. 10.1.10.250).
The subnet mask must be 255.255.255.0.

To make these settings, select Start → Control Panel → Network Connections. Right-click "LAN Connection" and select "Properties", see **Fejl! Henvisningskilde ikke fundet.**.

Figure 21 Network Connections

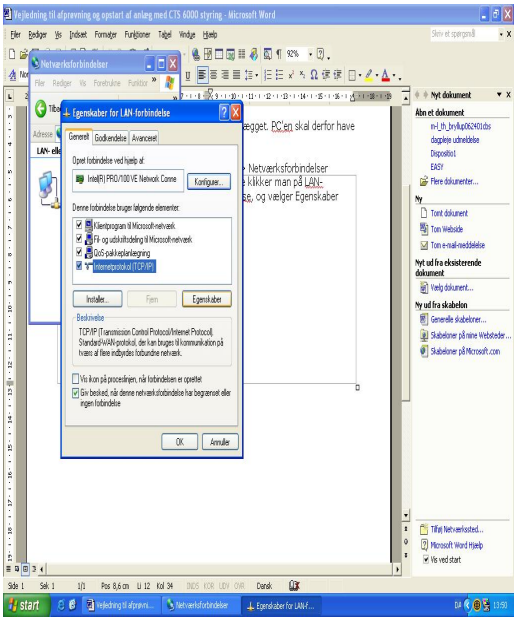

Figure 22 LAN Connection Properties

Under "LAN Connection Properties", select Internet Protocol (TCP/IP) and click "Properties", see **Fejl! Henvisningskilde ikke fundet.**.

Under "Internet Protocol (TCP/IP) Properties", select the "Alternative Configuration" tab, enter 10.1.10.250 in the IP address field and 255.255.255.0 in the subnet mask field, click "OK" and then "Close", see **Fejl! Henvisningskilde ikke fundet.**.

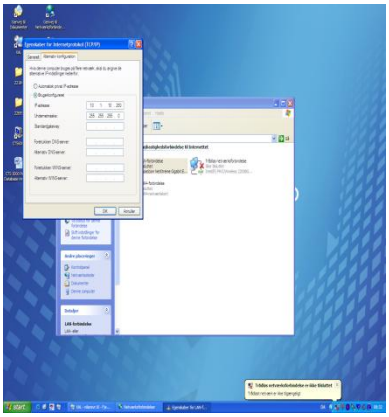

Figure 23 Internet Protocol (TCP/IP) Properties

Note! When logging into a ventilation unit from a PC connected directly to the unit via a crossover patch cable, it will take a while after connecting the cable before the PC has registered that it is to choose the IP address entered under "Alternative Configuration".

Creating a separate ADSL connection via TDC

The following example illustrates how a separate ADSL connection can be created for the control unit. The Danish IT and communications provider TDC is used in the example.

Contact TDC and order an ADSL connection for the address at which the unit is installed. The following must be included in the order:

- Static IP address
- Port 8722 must be open for normal traffic

Once the connection has been activated, the control unit's network settings must be changed. To do so, log into the system from a PC connected directly to the control unit with a crossover cable as described in section 0.
Then enter the following data under Communication → Network settings:

- IP address : 192.168.1.3 (LAN IP address)
- Net mask : 255.255.255.0
- Standard gateway : 192.168.1.1 (Router IP address)

Click OK to save and log out. The control unit can now be connected to the router using a standard patch cable. This completes the setup, and the ventilation unit can be accessed from anywhere by entering the static IP address (WAN IP address) assigned by TDC in the address field of an Internet browser.

For service purposes, it is possible to log into the system by connecting a computer to one of the other outputs on the router. Technicians can then log into the control unit by entering the LAN IP address in the address field of an Internet browser.

To activate email alarms, the SMTP server IP address must be entered in the field in the email alarm settings window. With TDC, the IP address is 80.160.77.108. Then enter a fictive email address as the unit's email address. Leave the username and password fields empty.